

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0108791

Owner: City of Maryville
Address: 415 North Market St., Maryville, MO 64468

Continuing Authority: Same as above
Address: Same as above

Facility Name: Maryville Sanitary Landfill
Address: Business 71 North, Maryville, MO 64468

Legal Description: NE ¼, Sec. 7, T64N, R35W, Nodaway County

Receiving Stream: Unnamed Tributary of 102 River (U)
First Classified Stream and ID: 102 River (P) (00342)
USGS Basin & Sub-watershed No.: (10240013-050002)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

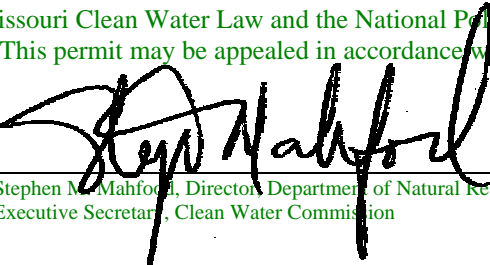
FACILITY DESCRIPTION

Outfall #001 - Landfill/Stormwater - SIC #4953
Stormwater runoff/settling basin.
Design Flow is 4.0 MGD.
Actual flow dependent upon precipitation.

Outfall #002 - No longer exists.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

July 25, 2003
Effective Date


Stephen M. Mahford, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

July 24, 2008
Expiration Date
MO 780-0041 (10-93)

Jim Hull, Director of Staff, Clean Water Commission

| | | | | | PAGE NUMBER 2 of 5 | |
|--|-----------------------|----------------------------|-------------------|--------------------|--------------------------|------------------------|
| A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS | | | | | PERMIT NUMBER MO-0108791 | |
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: | | | | | | |
| OUTFALL NUMBER AND EFFLUENT PARAMETER(S) | UNITS | FINAL EFFLUENT LIMITATIONS | | | MONITORING REQUIREMENTS | |
| | | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY | SAMPLE TYPE |
| <u>Outfall #001</u> | | | | | | |
| Flow | MGD | * | | * | once/quarter** | instantaneous estimate |
| Rainfall | inches | * | | * | daily measurement | *** |
| BETX | mg/L | 0.75 | | 0.75 | once/quarter** | grab |
| Biochemical Oxygen Demand ₅ | mg/L | 60 | | 45 | once/quarter** | grab |
| Chemical Oxygen Demand | mg/L | 120 | | 90 | once/quarter** | grab |
| Total Suspended Solids | mg/L | 80 | | 60 | once/quarter** | grab |
| Settleable Solids | mL/L | 1.5 | | 1.0 | once/quarter** | grab |
| Total Dissolved Solids | mg/L | * | | * | once/quarter** | grab |
| Conductivity (Specific Conductance) | micromhos/ cm/25°C | * | | * | once/quarter** | grab |
| Chloride Plus Sulfates | mg/L | 1000 | | * | once/quarter** | grab |
| Iron, Total Recoverable | mg/L | * | | * | once/quarter** | grab |
| pH - Units | SU | **** | | **** | once/quarter** | grab |
| MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2003</u> . | | | | | | |
| Calcium | mg/L | * | | * | once/year***** | grab |
| Fluoride | µg/L | * | | * | once/year***** | grab |
| Total Hardness | µg/L | * | | * | once/year***** | grab |
| Barium, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Boron, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Cadmium, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Chromium, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Cobalt, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Copper, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Sodium, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Ammonia as N | mg/L | ***** | | ***** | once/year***** | grab |
| MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2004</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS. | | | | | | |
| B. STANDARD CONDITIONS | | | | | | |
| IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN. | | | | | | |

| A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS | | | | | PAGE NUMBER 3 of 5 | |
|--|-------|----------------------------|-------------------|--------------------|--------------------------|----------------|
| | | | | | PERMIT NUMBER MO-0108791 | |
| The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below: | | | | | | |
| OUTFALL NUMBER AND EFFLUENT PARAMETER(S) | UNITS | FINAL EFFLUENT LIMITATIONS | | | MONITORING REQUIREMENTS | |
| | | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY | SAMPLE TYPE |
| <u>Outfall #001</u> | | | | | | |
| Nitrate and Nitrite as N | mg/L | * | | * | once/year***** | grab |
| Phosphorus, Total Recoverable | mg/L | * | | * | once/year***** | grab |
| Mercury, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Arsenic, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Lead, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Selenium, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Silver, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Manganese, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Magnesium, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Zinc, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Antimony, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Beryllium, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Nickel, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Sulfate | mg/L | * | | * | once/year***** | grab |
| Thallium, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Total Organic Carbon | mg/L | * | | * | once/year***** | grab |
| Vanadium, Total Recoverable | µg/L | * | | * | once/year***** | grab |
| Oil and Grease | mg/L | 15 | | 10 | once/year***** | grab |
| MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2004</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS. | | | | | | |
| B. STANDARD CONDITIONS | | | | | | |
| IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN. | | | | | | |

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** Sample once per quarter in the months of March, June, September and December.
- *** Grab samples shall be collected during a rainfall event, when there is runoff from the land fill site. The sample shall be collected no later than one hour after runoff begins.
- **** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- ***** The discharge shall not exceed the appropriate values in Table B 10 CSR 20, 7.031.
- ***** Samples to be taken in September.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

2. All outfalls must be clearly marked in the field.
3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability
4. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 ug/L);
 - (2) Two hundred micrograms per liter (200 ug/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

5. Report as no-discharge when a discharge does not occur during the report period.

C. SPECIAL CONDITIONS (continued)

6. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (e) There shall be no significant human health hazard from incidental contact with the water;
 - (f) There shall be no acute toxicity to livestock or wildlife watering;
 - (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.